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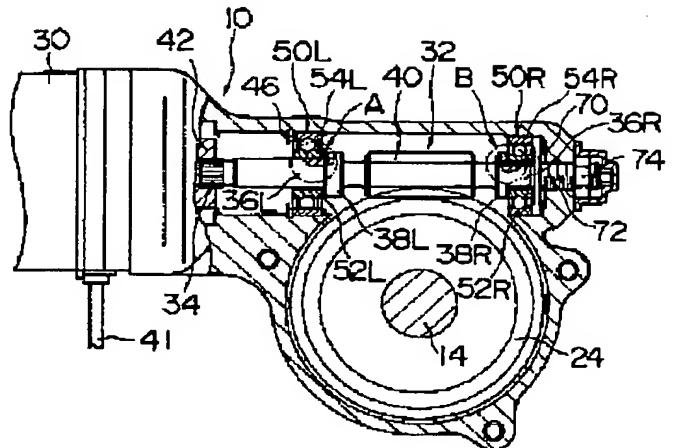
APPLICATION DATE : 15-12-97
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APPLICANT : NIPPON SEIKO KK;

INVENTOR : MACHIDA MASUSHI;

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TITLE : ELECTRIC POWER STEERING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To prevent hammering sound on a speed reducing and motive power transmission part even in simple constitution.

SOLUTION: An electric power steering device is furnished with a housing, a motor 30 installed on the housing and to generate auxiliary steering force on an axis of rotation, bearings 50L, 50R to support the axis of rotation 32 free to rotate, an output shaft 14 to transmit steering force to a wheel by its movement in the axial direction and a gear system having a first gear 40 connected to the axis of rotation and a second gear 24 connected to the output shaft and to be engaged with the aforementioned first gear and to transmit the auxiliary steering force of the motor to the output shaft 14. Additionally, an elastic body is interposed between the axis of rotation 32 or the housing and bearings 50L, 50R, a bush is fitted on a portion to slide with the axis of rotation 32 or the housing on the bearings 50L, 50R, and when tooth surfaces of the first gear 40 and the second gear 24 make contact with each other, the elastic body is deformed, and the axis of rotation 32 is moved in the axial direction through the bush against the housing.

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